Exercise 3

1.
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SELECT product_name,
       price
  CASE
    WHEN price > 1000 THEN 'Expensive'
    WHEN price BETWEEN 100 AND 1000 THEN 'Mid-range'
    ELSE 'Budget'
  END AS price_category
FROM products;
```

product_name	price	price_category
Laptop	1200	Expensive
Phone	800	Mid-range
Keyboard	45	Budget
Monitor	300	Mid-range
Mouse	25	Budget

2.
```
SELECT customer_name,
       amount
  CASE
  WHEN amount >= 1000 THEN 'High Value'
  WHEN amount BETWEEN 500 AND 999,99 THEN 'Medium Value'
  ELSE 'Low Value'
  END AS order_value_category
FROM orders
```

customer_name	amount	order_value_category
Alice	150 000	Low Value
Bob	560 000	Medium Value
Charlie	999.99	Medium Value
Diana	45.50	Low Value
Ethan	1200.00	High Value

3. SELECT emp-name,
department,
salary,
CASE
WHEN department = 'IT' AND salary > 80 000 THEN 'Senior IT'
WHEN department = 'HR' AND salary > 55 000 THEN 'Experienced HR'
ELSE 'staff'
END AS position_level
FROM employees

emp-name	department	salary	position_level
John	IT	85 000	Senior IT
Sara	HR	60 000	Experienced HR
Mark	IT	75 000	Staff
Lucy	Finance	95 000	Staff
Tom	HR	55 000	Staff

4. SELECT student_name, score,
CASE
WHEN score >= 90 THEN 'A'
WHEN score BETWEEN 80 AND 89 THEN 'B'
WHEN score BETWEEN 70 AND 79 THEN 'C'
WHEN score BETWEEN 60 AND 69 THEN 'D'
ELSE 'F'
END AS grade
FROM students

student_name	score	grade
Anna	92	A
Ben	76	C
Cara	59	F
David	83	B
Ella	68	D

5. SELECT delivery_id, delivery_time_minutes
CASE
WHEN delivery_time_minutes <= 30 THEN 'Fast'
WHEN delivery_time_minutes BETWEEN 31 AND 60 THEN 'On Time'
ELSE 'Late'
END AS performance
FROM deliveries

delivery_id	delivery_time_minutes	performances
1	45	On Time
2	80	Late
3	30	Fast
4	65	Late
5	100	Late

6. SELECT issue type,
priority,
CASE
WHEN priority = 3 THEN 'high'
WHEN priority = 2 THEN 'medium'
WHEN priority = 1 THEN 'low'
END AS priority_level
FROM tickets

issue_type	priority	priority_level
Login issue	1	Low
Server down	3	High
Slow system	2	Medium
Email server	2	Medium
Password reset	1	Low

7. SELECT student_id,
(days_present * 100 / total_days) AS attendance_percentages,
CASE
WHEN (days_present * 100 / total_days) > 90 THEN 'Excellent'
WHEN (days_present * 100 / total_days) BETWEEN 75 AND 89 THEN 'Good'
ELSE 'Needs_improvement'
END AS attendance_status
FROM attendance

student_id	attendance_percentage	attendance_status
1	90.0	Excellent
2	60.0	Needs Improvement
3	96.0	Excellent
4	50.0	Needs Improvement
5	100.0	Excellent

8. SELECT ~~subject, enrolled~~ product_id, stock_qty
CASE
WHEN stock_qty = 0 THEN 'Out_of Stock'
WHEN stock_qty BETWEEN 1 AND 4 THEN 'Low Stock'
ELSE 'In Stock'
END AS Stock_status
FROM products_inventory

product_id	stock_qty	stock_status
1	5	In Stock
2	0	Out of Stock
3	25	In Stock
4	10	In Stock
5	3	Low Stock

9. SELECT subject, enrolled_students
CASE
WHEN enrolled_students >= 25 THEN 'Large'
WHEN enrolled_students BETWEEN 10 AND 24 THEN 'Medium'
ELSE 'Small'
END AS class_size_category
FROM classes';

subject	enrolled_students	class_size_category
Math	30	Large
English	25	Large
Science	15	Medium
Art	5	Small
History	20	Medium

10. SELECT payment_id,
payment_method,
amount
CASE
WHEN payment_method = 'Cash' AND amount >= 200 THEN 'Eligible for Discount'
ELSE 'Not Eligible'
END AS discount_eligibility
FROM payments

payment_id	payment_method	amount	discount_eligibility
1	Card	50.00	Not Eligible
2	Cash	200.00	Eligible for Discount
3	Card	150.00	Not Eligible
4	Paypal	75.00	Not Eligible
5	Cash	300.00	Eligible for Discount